

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE N/A		PAGE 1 OF 29 PAGES		
2. AMENDMENT/MODIFICATION NO. 0004		3. EFFECTIVE DATE AUG. 14, 2003		4. REQUISITION/PURCHASE REQ. NO. N/A		5. PROJECT NO. (If applicable) SPEC. NO. 1362	
6. ISSUED BY CODE		7. ADMINISTERED BY (If other than Item 6) CODE					
DEPARTMENT OF THE ARMY U.S. ARMY ENGINEER DISTRICT, SACRAMENTO SACRAMENTO, CALIFORNIA 95814-2922				DISTRICT ENGINEER U.S. ARMY ENGINEER DISTRICT, SACRAMENTO 1325 J STREET SACRAMENTO, CALIFORNIA 95814-2922			

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)		(✓)	9A. AMENDMENT OF SOLICITATION NO. DACA05-03-R-0017
		✗	9B. DATED (SEE ITEM 11) JUL. 16, 2003
			10A. MODIFICATION OF CONTRACTS/ORDER NO. N/A
			10B. DATED (SEE ITEM 13) N/A
CODE		FACILITY CODE	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☒ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☒ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning 1 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)	
N/A	NOTE: ITEM 13 BELOW IS N/A.

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(✓)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A. N/A
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority) N/A

E. IMPORTANT: Contractor ☐ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)	
Upgrade Barracks Buildings 645, 646 and 841 PRESIDIO OF MONTEREY, CALIFORNIA	

1 Encl

1. Revised Pages: Pricing Schedule, 01011-3,01011-76,01320-10,01330-2, 01500-3,Section 01770 (New),Section 01781 (New), Access Verification Application Forms

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
15B. CONTRACTOR/OFFEROR		16B. UNITED STATES OF AMERICA	
_____ (Signature of person authorized to sign)		BY _____ (Signature of Contracting Officer)	
15C. DATE SIGNED		16C. DATE SIGNED	

Section 00010 - Solicitation Contract Form

PRICING SCHEDULE

Line Item No.	Description	Quantity		Unit UM	Price	Total Price
0001	Design: Upgrade Barracks, Bldg 645, Complete (Excluding Option(s)) (Includes design of construction options)	1	LS	LS	\$	_____
0002	Design and Construct: Upgrade Barracks, Bldg 645 (Excluding Option(s))					
0002AA	Repair/Replace Flooring & Base Trim	1	LS	LS	\$	_____
0002AB	Interior Walls & Ceilings to include Finishes	1	LS	LS	\$	_____
0002AC	Window Finishes & Miniblinds	1	LS	LS	\$	_____
0002AD	Bathroom Finishes & Fixtures Incl. Demo.	1	LS	LS	\$	_____
0002AE	Plumbing (Includes Work in Laundry Rooms Related to Fixtures)	1	LS	LS	\$	_____
0002AF	Heating & Ventilation.	1	LS	LS	\$	_____
0002AG	Fire Protection & Alarm	1	LS	LS	\$	_____
0002AH	Building Electrical, Communications, & Cable TV.	1	LS	LS	\$	_____
0002AJ	New Parking Area In Vicinity of Bldg. 629.	1	LS	LS	\$	_____

Line Item No.	Description	Quantity	Unit UM	Price	Total Price
0003	<i>Design and</i> Construction Option Items: Upgrade Barracks Bldg 645				
0003AA	Bldg 645-<i>Construct</i> <i>New Parking Area.</i>				
	(Option 01).	1	LS	LS	\$ _____
0003AB	Bldg 645- <i>Design and</i> Construct New Parking Area. (Option 02).	1	LS	LS	\$ _____
0003AC	Bldg 645- <i>Design and</i> Construct New Parking Area. (Option 03)	1	LS	LS	\$ _____
 SUBTOTAL FOR BLDG 645 (LINE ITEMS 0001 THRU 0003AC FOR DESIGN, CONSTRUCTION, AND <i>DESIGN, CONSTRUCTION OPTION ITEMS</i>)					
					\$ _____

Line Item No.	Description	Quantity		Unit UM	Price	Total Price
0004	Design: Upgrade Barracks, Bldg 646, Complete <i>(Excluding Option(s))</i>	1	LS	LS	\$_____	
0005	Construct: Upgrade Barracks Bldg 646 (Excluding construction options)					
0005AA	Repair/Replace Flooring & Base Trim	1	LS	LS	\$_____	
0005AB	Interior Walls & Ceilings to include Finishes	1	LS	LS	\$_____	
0005AC	Window Finishes & Miniblinds.	1	LS	LS	\$_____	
0005AD	Bathroom Finishes & Fixtures Incl. Demo.	1	LS	LS	\$_____	
0005AE	Plumbing (Includes Work in Laundry Rooms Related to Fixtures).	1	LS	LS	\$_____	
0005AF	Heating & Ventilation.	1	LS	LS	\$_____	
0005AG	Fire Protection & Alarm.	1	LS	LS	\$_____	
0005AH	Building Electrical, Communications, & Cable TV.	1	LS	LS	\$_____	

Line Item No.	Description	Quantity	Unit UM	Price	Total Price
0006	<i>Design and Construction Option Items: Upgrade Barracks Bldg 646</i>				
0006AA	<i>Bldg 646- Design and Construct New Parking Area. (Option 1)</i>				
		<i>1</i>	<i>LS</i>	<i>LS</i>	<i>\$ _____</i>
SUBTOTAL FOR BLDG 646 (LINE ITEMS 0004 THRU 0006AA FOR DESIGN, CONSTRUCTION, AND DESIGN, CONSTRUCTION OPTION ITEMS)					<i>\$ _____</i>

Line Item No.	Description	Quantity		Unit UM	Price	Total Price
0007	Design: Upgrade Barracks Bldg 841, Complete <i>(Excluding Option(s))</i>	1	LS	LS	\$_____	
0008	Construct: Upgrade Barracks, Bldg 841 (Excluding Construction Options)					
0008AA	Repair/Replace Flooring & Base Trim	1	LS	LS	\$_____	
0008AB	Interior Walls & Ceilings to include Finishes	1	LS	LS	\$_____	
0008AC	Window Finishes & Miniblinds.	1	LS	LS	\$_____	
0008AD	Bathroom Finishes & Fixtures Incl. Demo.	1	LS	LS	\$_____	
0008AE	Plumbing (Includes Work in Laundry Rooms Related to Fixtures)	1	LS	LS	\$_____	
0008AF	Heating & Ventilation.	1	LS	LS	\$_____	
0008AG	Fire Protection & Alarm	1	LS	LS	\$_____	
0008AH	Building Electrical, Communications, & Cable TV.	1	LS	LS	\$_____	

Line Item No.	Description	Quantity	Unit UM	Price	Total Price
0009AE	Provide the following 3 items for building 841 only: 1) provide conduit, conductors and trenching from pad-mount transformer to manhole to building 841 for building 841 secondary service upgrade, 2) provide two burner electric cook tops and provide branch circuits to them, and 3) upgrade the microwave/convection ovens to microwave/convection ovens with exhaust fan and light and required venting (Option 14)	1	LS	LS	\$ _____

**SUBTOTAL FOR BLDG 841
(LINE ITEMS 0007 THRU 0009AE FOR
DESIGN, CONSTRUCTION, AND
DESIGN, CONSTRUCTION OPTION ITEMS)** \$ _____

**GRAND TOTAL FOR DESIGN, CONSTRUCTION,
AND DESIGN, CONSTRUCTION OPTION ITEMS
FOR BUILDINGS 645, 646, AND 841
(LINE ITEMS 0001 THRU 0009AE)** \$ _____

Notes:

1. Prices must be submitted on all individual items of this Pricing Schedule. Failure to do so may cause the proposal to be determined "unacceptable".
2. If a modification to a price is submitted which provides for a lump sum adjustment to the total price, the application of the lump sum adjustment to each item in the Pricing Schedule must be stated. If it is not stated, the offeror agrees that the lump sum adjustment shall be applied on a pro rata basis to every item in the Pricing Schedule.
3. The offeror shall distribute his indirect costs (overhead, profit, bond, etc.) over all the items in the Pricing Schedule. The Government will review all submitted Pricing Schedules for any unbalancing of the items. Any submitted Pricing Schedule determined to be unbalanced may cause the proposal to be determined "unacceptable".
4. Deleted
5. The successful offeror grants the options listed in the Pricing Schedule to the Government. The option shall be exercised at time of the contract award. Exercise of the option occurs upon mailing of written notice to the Contractor. Exercise will be made by the Contracting Officer. The price for exercise of the option includes all work and effort associated with the scope of that item. No additional time for contract completion will be allowed when an option is exercised. The given contract completion time was formulated to include time necessary to perform all option work.
6. The target ceiling for contract award for design and construction is \$12,552,000.00 based on the funds made available for this project. The Government cannot guarantee that additional funds can be made available for award. Offerors are under no obligation to approach this ceiling.

1. NARRATIVES ON FUNCTIONAL REQUIREMENTS

The following narratives are included to aid the Contractor in understanding the requirements and functions of the Upgrade Barracks.

1.1 General:

This project will be to upgrade and renovate existing barracks buildings 645, 646, and 841. These barracks were originally constructed, for use as temporary quarters for language students, while attending classes on the Presidio of Monterey. Today, due to security requirements, there is an increased need for permanent party quarters. These barracks will be reconfigured to house permanent party personnel.

There is a trend in today's Army to make both the barrack's interior less institutional, and more residential in nature, providing our soldiers with comparable living accommodations to those available by the private industry off Post. This project should reflect that desire.

Due to a heightened increase in National Security, these barracks shall be designed in accordance with the Department of Defense Antiterrorism Standards for Buildings.

The Presidio of Monterey vulnerability assessment is "LOW", based on the 23 March 2000 Threat Assessment. What this means, is that the construction of this project has to comply with the minimum standards for protection of existing billeting.

~~The minimum standoff distances for conventional construction of billeting are: 45m (148 ft.) from the Post controlled perimeter fence; 25m (82 ft.) from all parking and roadways; 25m (82 ft.) from trash containers; 10m (33 ft.) from adjacent buildings for new construction. This is an existing billeting facility, so the requirements are less stringent due to previous construction practices, they are: 25m (82 ft.) from the Post controlled perimeter fence; 10m (33 ft.) from all parking and roadways; 10m (33 ft.) from trash containers; no antiterrorism minimum from adjacent buildings. There are additional requirements, including material specifications, clear zones, and landscaping that will need to comply with force protection as well.~~

The Request for Proposal does not require structural upgrades related to Progressive Collapse and Blast Effect. A structural analysis is being conducted to assess these buildings' vulnerabilities to Progressive Collapse and Blast Effect. Results of this analysis will not be available until after contract award. Should revisions to the contract requirements be necessary they will be made through a contract modification.

For this project, the Design Build Contractor has the option of using the most beneficial materials that will meet the required criteria.

All these conditions still must be in compliance with the Presidio of Monterey's Master Plan, their integrated Environmental Plan, and their Design Guide. These reference documents may be obtained from Steven Scholten, U.S. Army Corps of Engineers Resident Engineer at the Presidio of Monterey, ph. 831-884-9932 x223.

D.2. The "as-built" dryer exhaust fans for both Barracks 645 and 646 are non-operational and are still located in the mechanical rooms. The dryer exhaust fans for Barracks 645 and 646 are being exhausted by wall mounted PRVs. The PRVs are mounted where the laundry room exhaust fans were located on the "as-built" drawings.

D.3. The following actions for all three laundry rooms shall be taken:

- Remove all existing fans and ductwork used for the dryers that is located in the mechanical room.
- Remove the PRV's for Barracks 645 and 646.
- Remove all ductwork in the laundry room.
- Redesign and install the dryer exhaust system per ETL 1110-3-483, Engineering and Design, CLOTHES DRYER EXHAUST VENTING. 23 March 1998, refer to attachment # 11 of this RFP.
- Recommend new fan be relocated in mechanical room and connected to original exhaust louver if possible, otherwise provide alternate location of exhaust fan and exhaust louver.
- Ensure fans are in-line centrifugal with backward inclined fan blades designed for such application. Motor shall be located outside of air stream. No insect screen on louver shall be allowed.
- Refer to paragraph "Clothes Dryer Controls" for control strategy.
- Replace original Laundry Room Exhaust fan per "as-built" drawings and provide wall mounted thermostat.
- Provide means to supply make-up air for the dryer exhaust fan, preferably through a wall louver/damper door louver. Damper to be interlocked with the exhaust fan.
- Contractor may provide alternatives to the fore mentioned items; however, possible acceptance will only be granted during the design review submittal.

E. Fans: Fans shall be tested and rated according to AMCA 210 and shall be U.L. listed. Fans may be connected to the motors either directly or indirectly with V-belt drive unless noted otherwise. Removable metal guards shall be provided for all exposed V-belt drives. Fans shall be provided with personnel screens or guards on both suction and supply ends, except that the screens need not be provided, unless otherwise indicated, where ducts are connected to the fan. ~~Each fan shall be selected to produce the capacity required at the fan static pressure indicated.~~

A compilation of the Contractor's Total Earnings on the project from the NTP until the most recent Monthly Progress Meeting. This report shall reflect the Earnings of specific activities based on the agreements made in the field and approved between the Contractor and Contracting Officer at the most recent Monthly Progress Meeting. Provided that the Contractor has provided a complete schedule update, this report shall serve as the basis of determining Contractor Payment. Activities shall be grouped by bid item and sorted by activity numbers. This report shall: sum all activities in a bid item and provide a bid item percent; and complete and sum all bid items to provide a total project percent complete. The printed report shall contain, for each activity: the Activity Number, Activity Description, Original Budgeted Amount, Total Quantity, Quantity to Date, Percent Complete (based on cost), and Earnings to Date.

3.5.4.5 **Manpower Loading**

This report shall identify the manpower loading associated with each activity identified in the schedule.

3.5.5 Network Diagram

The network diagram shall be required on the initial schedule submission and on monthly schedule update submissions. The network diagram shall depict and display the order and interdependence of activities and the sequence in which the work is to be accomplished. The Contracting Officer will use, but is not limited to, the following conditions to review compliance with this paragraph:

3.5.5.1 Continuous Flow

Diagrams shall show a continuous flow from left to right with no arrows from right to left. The activity number, description, duration, and estimated earned value shall be shown on the diagram.

3.5.5.2 Project Milestone Dates

Dates shall be shown on the diagram for start of project, any contract required interim completion dates, and contract completion dates.

3.5.5.3 Critical Path

The critical path shall be clearly shown.

3.5.5.4 Banding

Activities shall be grouped to assist in the understanding of the activity sequence. Typically, this flow will group activities by category of work, work area and/or responsibility.

3.5.5.5 S-Curves

Earnings curves showing projected early and late earnings and earnings to date.

3.6 PERIODIC PROGRESS MEETINGS

Progress meetings to discuss payment shall include a monthly onsite meeting or other regular intervals mutually agreed to at the preconstruction conference. During this meeting the Contractor shall describe, on an activity by activity basis, all proposed revisions and adjustments to the project schedule required to reflect the current status of the project. The Contracting Officer will approve activity progress, proposed revisions, and adjustments as appropriate.

SECTION 01330

SUBMITTAL PROCEDURES

PART 1 GENERAL

1.1 SUBMITTAL IDENTIFICATION

SD-01 Data

SD-04 Drawings

SD-06 Instructions

SD-07 Schedules

SD-08 Statements

SD-09 Reports

SD-13 Certificates

SD-14 Samples

SD-18 Records

SD-19 Operation and Maintenance Manuals

1.1.1 Design Submittals

Administrative Contracting Officer review is required for all design. Section 01012, Design After Award, covers the design submittal and review process in detail.

1.2 SUBMITTAL CLASSIFICATION

Submittals are classified as follows:

1.2.1 Government Approved

Governmental approval is required for extensions of design, critical materials, deviations, equipment whose compatibility with the entire system must be checked, and other items as designated by the Contracting Officer. Within the terms of the Contract Clause entitled "Specifications and Drawings for Construction," they are considered to be "shop drawings." Governmental approval shall be for design, ***fire sprinkler, fire alarm, submittal register, and the schedule.***

1.2.2 Information Only

All submittals not requiring Government approval will be for information only. They are not considered to be "shop drawings" within the terms of the Contract Clause referred to above.

1.2 GENERAL REQUIREMENTS

1.2.1 Site Plan

The Contractor shall prepare a site plan indicating the proposed location and dimensions of any area to be fenced and used by the Contractor, the number of trailers to be used, avenues of ingress/egress to the fenced area and details of the fence installation. Any areas which may have to be graveled to prevent the tracking of mud shall also be identified. The Contractor shall also indicate if the use of a supplemental or other staging area is desired. ***If a supplemental storage area is needed, the Contractor shall fence and lock it.***

1.2.2 Identification of Employees

The Contractor shall be responsible for furnishing to each employee and for requiring each employee engaged on the work to display identification as approved and directed by the Contracting Officer. Prescribed identification shall immediately be delivered to the Contracting Officer for cancellation upon release of any employee. When required, the Contractor shall obtain and provide fingerprints of persons employed on the project. Contractor and subcontractor personnel shall wear identifying markings on hard hats clearly identifying the company for whom the employee works.

1.2.3 Employee Parking

Contractor employees shall park privately owned vehicles in an area designated by the Contracting Officer. This area will be within reasonable walking distance of the construction site. Contractor employee parking shall not interfere with existing and established parking requirements of the military installation.

1.3 AVAILABILITY AND USE OF UTILITY SERVICES

1.3.1 Payment for Utility Services

See Section 00800, Paragraph 52.0236-4582 Available Utilities.

1.3.2 Sanitation

The Contractor shall provide and maintain within the construction area minimum field-type sanitary facilities approved by the Contracting Officer. Government toilet facilities will not be available to Contractor's personnel.

1.3.3 Telephone

The Contractor shall make arrangements and pay all costs for telephone facilities desired.

1.4 BULLETIN BOARD, PROJECT SIGN, AND PROJECT SAFETY SIGN

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SECTION 01770N

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 - 1.3.1 Hazardous Material Reporting
- 1.4 Certification of EPA Designated Items
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SECTION 01770N

CLOSEOUT PROCEDURES

PART 1 GENERAL

1.1 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only or as otherwise designated. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-10 Operation and Maintenance Data

Equipment/product warranty list; G

Submit Data Package 1 in accordance with Section 01781, "Operation and Maintenance Data."

SD-11 Closeout Submittals

As-built drawings; G

Record of materials; G

Utility Record Drawings

Utility as-built drawings; G

Equipment/product warranty tag; G

Monthly project waste summary report; G

Hazardous material reporting; G

Certification of EPA Designated Items; G

1.2 Utility As-Built Drawings

In addition to as-built drawings provide for each exterior utility system a set of reproducible utility drawings, stamped and signed by a registered professional civil engineer or professional land surveyor, and two copies. Submit within ten working days after each system is in place, but no later than five working days before final inspection. Indicate exterior utilities from a point five feet from a building to the termination point or point of connection to existing system. Include the following:

- a. Horizontal and vertical controls for new utilities and existing utilities exposed during construction. Reference to station's horizontal and vertical control system.
- b. Sufficient dimensional control for all important features such as

beginning and termination points, points of connection, inverts for sewer lines and drainage collection systems, top of pipe or conduit runs, manholes, cathodic protection appurtenances, valves, valve stem tops, backflow preventers, and other significant features.

- c. Indicate type and size of all materials used in the construction of the system.
- d. Indicate bearing and distance on tangent lines. On curves, indicate delta and radius of the curve, also provide X, Y, and Z coordinates at all BC and EC angle points. Indicate horizontal and vertical control for all intersecting and tangent points where utility alignment changes. Indicate X, Y, and Z coordinates at building line and point of connection for straight building laterals or services under 40 feet.
- e. Tolerances: Horizontal and vertical control dimensions, plus or minus 0.10 foot. Angular control, plus or minus 0 degrees 01 minute.

1.3 Monthly Project Waste Summary Report

Submit the final submission of the monthly project waste summary report as specified in Engineering Field Activity (EFA) Northwest Regional Section 01575N, "Environmental Temporary Controls."

1.3.1 Hazardous Material Reporting

Submit hazardous material reporting information which includes actual quantities of hazardous materials stored and used during the project as specified in EFA Northwest regional Section 01525, "Safety Requirements".

]1.4 Certification of EPA Designated Items

Submit the Certification of EPA Designated Items as required by FAR 52.223-9, "Certification and Estimate of Percentage of Recovered Material Content for EPA Designated Items".

1.5 PROJECT RECORD DOCUMENTS

1.5.1 As-Built Drawings

"FAC 5252.236-9310, Record Drawings." In addition to the requirements of FAC 5252.236-9310, the Contractor shall survey the horizontal and vertical location of all underground utilities to within 0.1 feet relative to the station datum. All pipe utilities shall be surveyed at each fitting and every 100 LF of run length. Electrical and communication ductbank, direct buried conduit, and direct buried conductor shall be surveyed every 100 LF and at each change of direction. Locations and elevations shall be recorded on the Record Drawings. Submit drawings with QC certification. Submit drawings in CAD format.

1.5.2 Utility Record Drawings

In addition to record drawings provide for each exterior utility system a set of reproducible utility drawings, stamped and signed by a registered professional civil engineer or professional land surveyor, and two copies.

Submit within ten working days after each system is in place, but no later than five working days before final inspection. Indicate exterior utilities from a point five feet from a building to the termination point or point of connection to existing system. Include the following:

- a. Horizontal and vertical controls for new utilities and existing utilities exposed during construction. Reference to station's horizontal and vertical control system.
- b. Sufficient dimensional control for all important features such as beginning and termination points, points of connection, inverts for sewer lines and drainage collection systems, top of pipe or conduit runs, manholes, cathodic protection appurtenances, valves, valve stem tops, backflow preventers, and other significant features.
- c. Indicate type and size of all materials used in the construction of the system.
- d. Indicate bearing and distance on tangent lines. On curves, indicate delta and radius of the curve, also provide X, Y, and Z coordinates at all BC and EC angle points. Indicate horizontal and vertical control for all intersecting and tangent points where utility alignment changes. Indicate X, Y, and Z coordinates at building line and point of connection for straight building laterals or services under 40 feet.
- e. Tolerances: Horizontal and vertical control dimensions, plus or minus 0.10 foot. Angular control, plus or minus 0 degrees 01 minute.

1.5.3 As-Built Record of Materials

Furnish a record of materials.

Where several manufacturers' brands, types, or classes of the item listed have been used in the project, designate specific areas where each item was used. Designations shall be keyed to the areas and spaces depicted on the contract drawing. Furnish the record of materials used in the following format:

MATERIALS DESIGNATION	SPECIFICATION	MANUFACTURER	MATERIALS USED (MANUFACTURER'S DESIGNATION)	WHERE USED
--------------------------	---------------	--------------	---------------------------------------------------	---------------

[1.6 EQUIPMENT/PRODUCT WARRANTIES

1.6.1 Equipment/Product Warranty List

Furnish to the Contracting Officer a bound and indexed notebook containing written warranties for equipment/products furnished under the contract, and prepare a complete listing of such equipment/products. The equipment/products list shall state the specification section applicable to the equipment/product, duration of the warranty therefor, start date of the warranty, ending date of the warranty, and the point of contact for fulfillment of the warranty. The warranty period shall begin on the same date as project acceptance and shall continue for the full product warranty

period. Execute the full list and deliver to the Contracting Officer prior to final acceptance of the facility.

1.6.2 Equipment Warranty Tags and Guarantor's Local Representative

Furnish with each warranty the name, address, and telephone number of the guarantor's representative nearest to the location where the equipment and appliances are installed. The guarantor's representative, upon request of the station representative, shall honor the warranty during the warranty period, and shall provide the services prescribed by the terms of the warranty. At the time of installation, tag each item of warranted equipment with a durable, oil- and water-resistant tag approved by the Contracting Officer. Attach tag with copper wire and spray with a clear silicone waterproof coating. Leave the date of acceptance and QC's signature blank until project is accepted for beneficial occupancy. Tag shall show the following information:

EQUIPMENT/PRODUCT WARRANTY TAG

Type of Equipment/Product _____
 Warranty Period _____ From _____ To _____
 Contract No. _____
 Inspector's Signature _____ Date Accepted _____

Construction Contractor:

Name: _____
 Address: _____
 Telephone: _____

Warranty Contact: _____

Name: _____
 Address: _____
 Telephone: _____

STATION PERSONNEL TO PERFORM ONLY OPERATIONAL MAINTENANCE

]1.7 MECHANICAL TESTING AND BALANCING

All contract requirements of Section 15910N, "Direct Digital Control Systems," shall be fully completed, including all testing, prior to contract completion date. In addition, all contract requirements of Section 15950N, "HVAC Testing/Adjusting/Balancing," shall be fully completed, including testing and inspection, prior to contract completion date, except as noted otherwise in Section 15950N. The time required to complete all work and testing as prescribed by Sections 15910N and 15950N is included in the allotted calendar days for completion.

1.8 CLEANUP

Leave premises "broom clean." Clean interior and exterior glass surfaces exposed to view; remove temporary labels, stains and foreign substances; polish transparent and glossy surfaces; vacuum carpeted and soft surfaces. Clean equipment and fixtures to a sanitary condition. Replace filters of operating equipment. Clean debris from roofs, gutters, downspouts and drainage systems. Sweep paved areas and rake clean landscaped areas. Remove waste and surplus materials, rubbish and construction facilities from the site.

PART 2 PRODUCTS

Not used.

PART 3 EXECUTION

Not used.

-- End of Section --

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SECTION 01781

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SECTION 01781

OPERATION AND MAINTENANCE DATA

PART 1 GENERAL

1.1 SUBMISSION OF OPERATION AND MAINTENANCE DATA

Submit Operation and Maintenance (O&M) Data specifically applicable to this contract and a complete and concise depiction of the provided equipment, product, or system. Organize and present information in sufficient detail to clearly explain O&M requirements at the system, equipment, component, and subassembly level. Include an index preceding each submittal. Submit in accordance with this section and Section 01330, "Submittal Procedures."

1.1.1 Package Quality

Documents must be fully legible. Poor quality copies and material with hole punches obliterating the text or drawings will not be accepted.

1.1.2 Package Content

Data package content shall be as shown in the paragraph titled "Schedule of Operation and Maintenance Data Packages." Comply with the data package requirements specified in the individual technical sections, including the content of the packages and addressing each product, component, and system designated for data package submission.

1.1.3 Changes to Submittals

Manufacturer-originated changes or revisions to submitted data shall be furnished by the Contractor if a component of an item is so affected subsequent to acceptance of the O&M Data. Changes, additions, or revisions required by the Contracting Officer for final acceptance of submitted data, shall be submitted by the Contractor within 30 calendar days of the notification of this change requirement.

1.2 TYPES OF INFORMATION REQUIRED IN O&M DATA PACKAGES

1.2.1 Operating Instructions

Include specific instructions, procedures, and illustrations for the following phases of operation:

1.2.1.1 Safety Precautions

List personnel hazards and equipment or product safety precautions for all operating conditions.

1.2.1.2 Operator Prestart

Include procedures required to set up and prepare each system for use.

1.2.1.3 Startup, Shutdown, and Post-Shutdown Procedures

Provide narrative description for Startup, Shutdown and Post-shutdown operating procedures including the control sequence for each procedure.

1.2.1.4 Normal Operations

Provide narrative description of Normal Operating Procedures. Include Control Diagrams with data to explain operation and control of systems and specific equipment.

1.2.1.5 Emergency Operations

Include Emergency Procedures for equipment malfunctions to permit a short period of continued operation or to shut down the equipment to prevent further damage to systems and equipment. Include Emergency Shutdown Instructions for fire, explosion, spills, or other foreseeable contingencies. Provide guidance and procedures for emergency operation of all utility systems including required valve positions, valve locations and zones or portions of systems controlled.

1.2.1.6 Operator Service Requirements

Include instructions for services to be performed by the operator such as lubrication, adjustment, inspection, and recording gage readings.

1.2.1.7 Environmental Conditions

Include a list of Environmental Conditions (temperature, humidity, and other relevant data) that are best suited for the operation of each product, component or system. Describe conditions under which the item equipment should not be allowed to run.

1.2.2 Preventive Maintenance

Include the following information for preventive and scheduled maintenance to minimize corrective maintenance and repair.

1.2.2.1 Lubrication Data

Include preventative maintenance lubrication data, in addition to instructions for lubrication provided under paragraph titled "Operator Service Requirements":

- a. A table showing recommended lubricants for specific temperature ranges and applications.
- b. Charts with a schematic diagram of the equipment showing lubrication points, recommended types and grades of lubricants, and capacities.
- c. A Lubrication Schedule showing service interval frequency.

1.2.2.2 Preventive Maintenance Plan and Schedule

Include manufacturer's schedule for routine preventive maintenance, inspections, tests and adjustments required to ensure proper and economical operation and to minimize corrective maintenance. Provide manufacturer's projection of preventive maintenance work-hours on a daily, weekly, monthly, and annual basis including craft requirements by type of craft. For periodic calibrations, provide manufacturer's specified frequency and

procedures for each separate operation.

1.2.3 Corrective Maintenance (Repair)

Include manufacturer's recommended procedures and instructions for correcting problems and making repairs.

1.2.3.1 Troubleshooting Guides and Diagnostic Techniques

Include step-by-step procedures to promptly isolate the cause of typical malfunctions. Describe clearly why the checkout is performed and what conditions are to be sought. Identify tests or inspections and test equipment required to determine whether parts and equipment may be reused or require replacement.

1.2.3.2 Wiring Diagrams and Control Diagrams

Wiring diagrams and control diagrams shall be point-to-point drawings of wiring and control circuits including factory-field interfaces. Provide a complete and accurate depiction of the actual job specific wiring and control work. On diagrams, number electrical and electronic wiring and pneumatic control tubing and the terminals for each type, identically to actual installation configuration and numbering.

1.2.3.3 Maintenance and Repair Procedures

Include instructions and a list of tools required to repair or restore the product or equipment to proper condition or operating standards.

1.2.3.4 Removal and Replacement Instructions

Include step-by-step procedures and a list required tools and supplies for removal, replacement, disassembly, and assembly of components, assemblies, subassemblies, accessories, and attachments. Provide tolerances, dimensions, settings and adjustments required. Instructions shall include a combination of text and illustrations.

1.2.3.5 Spare Parts and Supply Lists

Include lists of spare parts and supplies required for maintenance and repair to ensure continued service or operation without unreasonable delays. Special consideration is required for facilities at remote locations. List spare parts and supplies that have a long lead-time to obtain.

1.2.4 Corrective Maintenance Work-Hours

Include manufacturer's projection of corrective maintenance work-hours including requirements by type of craft. Corrective maintenance that requires completion or participation of the equipment manufacturer shall be identified and tabulated separately.

1.2.5 Appendices

Provide information required below and information not specified in the preceding paragraphs but pertinent to the maintenance or operation of the product or equipment. Include the following:

1.2.6 Parts Identification

Provide identification and coverage for all parts of each component, assembly, subassembly, and accessory of the end items subject to replacement. Include special hardware requirements, such as requirement to use high-strength bolts and nuts. Identify parts by make, model, serial number, and source of supply to allow reordering without further identification. Provide clear and legible illustrations, drawings, and exploded views to enable easy identification of the items. When illustrations omit the part numbers and description, both the illustrations and separate listing shall show the index, reference, or key number that will cross-reference the illustrated part to the listed part. Parts shown in the listings shall be grouped by components, assemblies, and subassemblies in accordance with the manufacturer's standard practice. Parts data may cover more than one model or series of equipment, components, assemblies, subassemblies, attachments, or accessories, such as typically shown in a master parts catalog

1.2.6.1 Warranty Information

List and explain the various warranties and include the servicing and technical precautions prescribed by the manufacturers or contract documents in order to keep warranties in force. Include warranty information for primary components such as the compressor of air conditioning system.

1.2.6.2 Personnel Training Requirements

Provide information available from the manufacturers that is needed for use in training designated personnel to properly operate and maintain the equipment and systems.

1.2.6.3 Testing Equipment and Special Tool Information

Include information on test equipment required to perform specified tests and on special tools needed for the operation, maintenance, and repair of components.

1.2.6.4 Contractor Information

Provide a list that includes the name, address, and telephone number of the General Contractor and each Subcontractor who installed the product or equipment, or system. For each item, also provide the name address and telephone number of the manufacturer's representative and service organization most convenient to the project site. Provide the name, address, and telephone number of the product, equipment, and system manufacturers.

1.3 SCHEDULE OF OPERATION AND MAINTENANCE DATA PACKAGES

Furnish the O&M data packages specified in individual technical sections. The required information for each O&M data package is as follows:

1.3.1 Data Package 1

- a. Safety precautions
- b. Maintenance and repair procedures
- c. Warranty information

- d. Contractor information
- e. Spare parts and supply list

1.3.2 Data Package 2

- a. Safety precautions
- b. Normal operations
- c. Environmental conditions
- d. Lubrication data
- e. Preventive maintenance plan and schedule
- f. Maintenance and repair procedures
- g. Removal and replacement instructions
- h. Spare parts and supply list
- i. Parts identification
- j. Warranty information
- k. Contractor information

1.3.3 Data Package 3

- a. Safety precautions
- b. Normal operations
- c. Emergency operations
- d. Environmental conditions
- e. Lubrication data
- f. Preventive maintenance plan and schedule
- g. Troubleshooting guides and diagnostic techniques
- h. Wiring diagrams and control diagrams
- i. Maintenance and repair procedures
- j. Removal and replacement instructions
- k. Spare parts and supply list
- l. Parts identification
- m. Warranty information
- n. Testing equipment and special tool information
- o. Contractor information

1.3.4 Data Package 4

- a. Safety precautions
- b. Operator prestart
- c. Startup, shutdown, and post-shutdown procedures
- d. Normal operations
- e. Emergency operations
- f. Operator service requirements
- g. Environmental conditions
- h. Lubrication data
- i. Preventive maintenance plan and schedule
- j. Troubleshooting guides and diagnostic techniques
- k. Wiring diagrams and control diagrams
- l. Maintenance and repair procedures
- m. Removal and replacement instructions
- n. Spare parts and supply list
- o. Corrective maintenance man-hours
- p. Parts identification
- q. Warranty information
- r. Personnel training requirements
- s. Testing equipment and special tool information
- t. Contractor information

1.3.5 Data Package 5

- a. Safety precautions
- b. Operator prestart
- c. Start-up, shutdown, and post-shutdown procedures
- d. Normal operations
- e. Environmental conditions
- f. Preventive maintenance plan and schedule
- g. Troubleshooting guides and diagnostic techniques

- h. Wiring and control diagrams
- i. Maintenance and repair procedures
- j. Spare parts and supply list
- k. Testing equipments and special tools
- l. Warranty information
- m. Contractor information

PART 2 PRODUCTS

Not used.

PART 3 EXECUTION

Not used.

-- End of Section --

Access Verification Application

Date: _____
(DD MMM YY)

Complete form if you are requesting to be placed on the access roster to permit entrance to the POM. If you have valid identification and a valid DOD decal you do not need to be placed on an access roster.

1. The sponsor will complete the form and process it through their verifying element for signature.
2. One of the three controlling element's representatives (Garrison Commander, Assistant Commandant or Chief of Staff) will verify the information and forward the completed form to the Crisis Action Center (CAC) (Conference Room, first floor building 614) update the access roster.
3. CAC will give the updated access roster to the 72nd MP for distribution to the gate guards.
4. The completed form is kept on file for record in the CAC/EOC.

Applicant's Full Name(s)
(See Notes)

SSN/DL# - From picture I.D.

Dates of Access
(start and stop)

Purpose of Visit:

Contract Expiration:

Sponsor Information

Name:

Organization:

Phone #:

Controlling Element Representative Verification:

(Initial One) Chief of Staff _____ Assistant CMDT _____ Garrison CDR _____

(Name) (Signature) (Date) (Phone)

EOC Verification: _____
(Rank, Full Printed Name, Signature, Position, and date)

- Note:**
- * Non-Contracted Individual's Access will not exceed 30 Days.
 - * Contractors' passes may exceed 30 days but will not exceed the duration of the contract.
 - * Complete separate applications for each person for non-concurrent access days.
 - Additional Applicants must be added on an attached memo with the official organization's POC's signature.

Access Verification Application

Applicant's Full Name(s)
(See Notes)

SSN/DL# - From picture I.D.

Dates of Access
(start and stop)

[illegible]